

Fig. 1

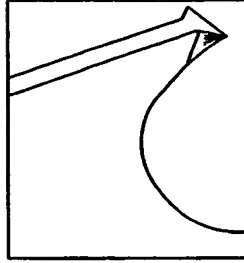


Fig. 2

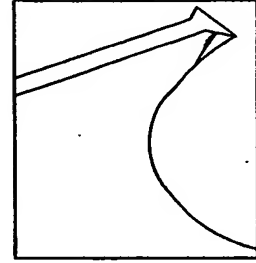


Fig. 3

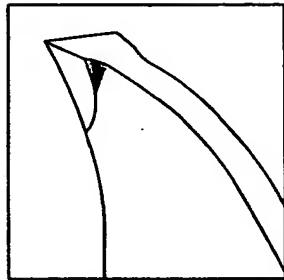


Fig. 4

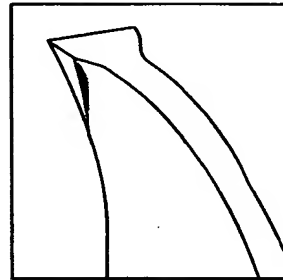


Fig. 5

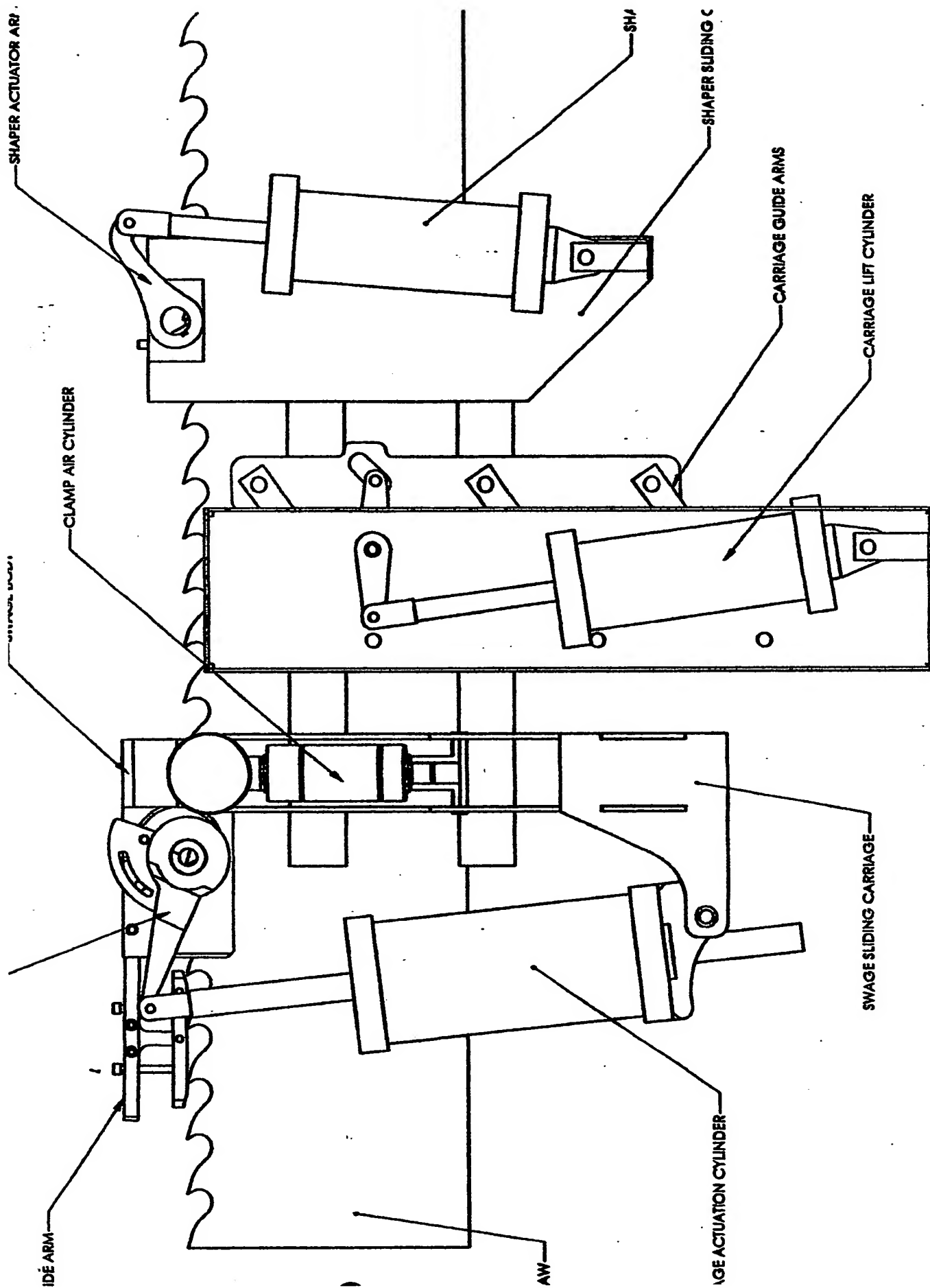
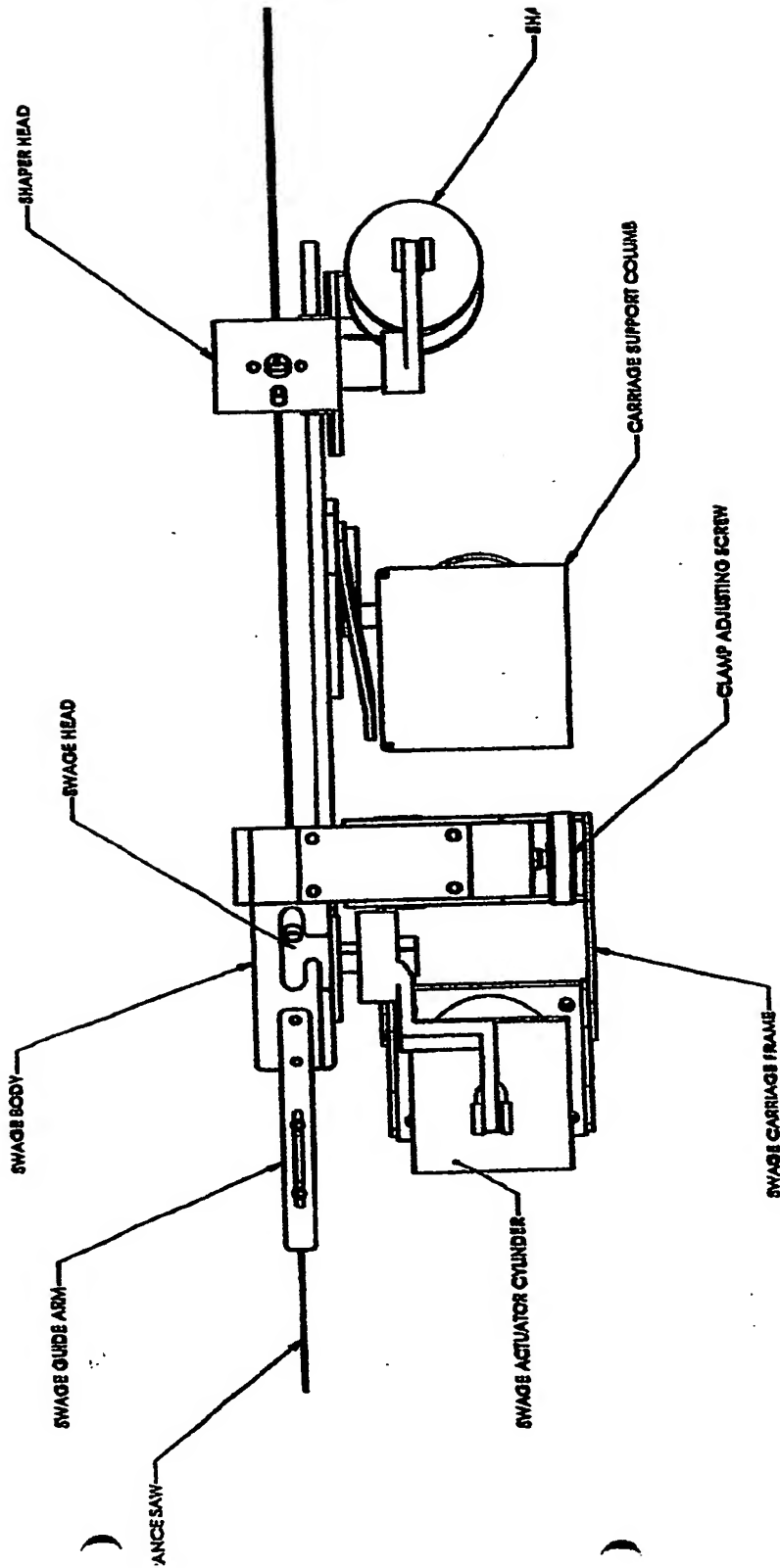


FIG. 6



TOP VIEW  
 FIG. 7

SHEET 1 OF 2		D-18319	REV 0
ITEM NO.	QTY/PART NO.	DESCRIPTION	
1	1	MOUNTING SWAGE CARRIAGE	
2	1	MOUNTING BRACKET	
3	1	ROD CLIP, 3/16" DIA. X 1/2"	
4	1	SWAGE 1	
5	1	SWAGE 2	
6	1	CABLE CARRIER	
7	1	SENSOR, AMM. PNE. SHIELD	
8	1	COVER, SWAGE SHIRT	
9	1	ASSY. CARRIER BLOCK-1	
10	1	BEVER ASA WELDMENT	
11	3	COLLAR, SHIRT	
12	4	SPACER, 1/2" DIA. X 1/2" L	
13	1	WASHER, 1/2" DIA. X 1/2" L	
14	1	NUT, 1/2" DIA. X 1/2" L	
15	1	CAPSCREW, 1/4" DIA. X 1/2" L	
16	1	HANDLE WITH SMALL BALL	
17	2	NUT, SWAGE STOP	
18	2	BEVER, 3/8" DIA. X 1/2" L	
19	3	NUT, 1/2" DIA. X 1/2" L	
20	1	CABLE SENSOR	
21	2	BLOW-UP SHIRT TO 3/4" DIA.	
22	2	BLOW-UP SHIRT TO 3/4" DIA.	
23	2	SCREW, 1/4" DIA. X 1/2" L	
24	1	SCREW, 1/4" DIA. X 1/2" L	
25	1	WASHER, 1/2" DIA. X 1/2" L	
26	2	WASHER, 1/2" DIA. X 1/2" L	
27	4	WASHER, 1/2" DIA. X 1/2" L	
28	1	NUT, 1/2" DIA. X 1/2" L	
29	1	NUT, 1/2" DIA. X 1/2" L	
30	1	SWAGE DRIVE SHIRT	
31	1	ASSY. SWAGE HEAD 623	
32	1	DR. DRIVE ARM	
33	1	SPACER	
34	1	HANDLE ASSEMBLY	
35	1	CTL. 2" BORE X 2" TRUNION M/G	
36	1	CTL. 2" BORE X 2" TRUNION M/G	
37	1	CTL. 2" BORE X 2" TRUNION M/G	
38	1	CTL. 2" BORE X 2" TRUNION M/G	
39	1	CTL. 2" BORE X 2" TRUNION M/G	
40	1	CTL. 2" BORE X 2" TRUNION M/G	
41	1	CTL. 2" BORE X 2" TRUNION M/G	
42	1	CTL. 2" BORE X 2" TRUNION M/G	
43	1	CTL. 2" BORE X 2" TRUNION M/G	
44	1	CTL. 2" BORE X 2" TRUNION M/G	
45	1	CTL. 2" BORE X 2" TRUNION M/G	
46	1	CTL. 2" BORE X 2" TRUNION M/G	
47	1	CTL. 2" BORE X 2" TRUNION M/G	
48	1	CTL. 2" BORE X 2" TRUNION M/G	
49	1	CTL. 2" BORE X 2" TRUNION M/G	
50	1	CTL. 2" BORE X 2" TRUNION M/G	
51	1	CTL. 2" BORE X 2" TRUNION M/G	
52	1	CTL. 2" BORE X 2" TRUNION M/G	
53	1	CTL. 2" BORE X 2" TRUNION M/G	

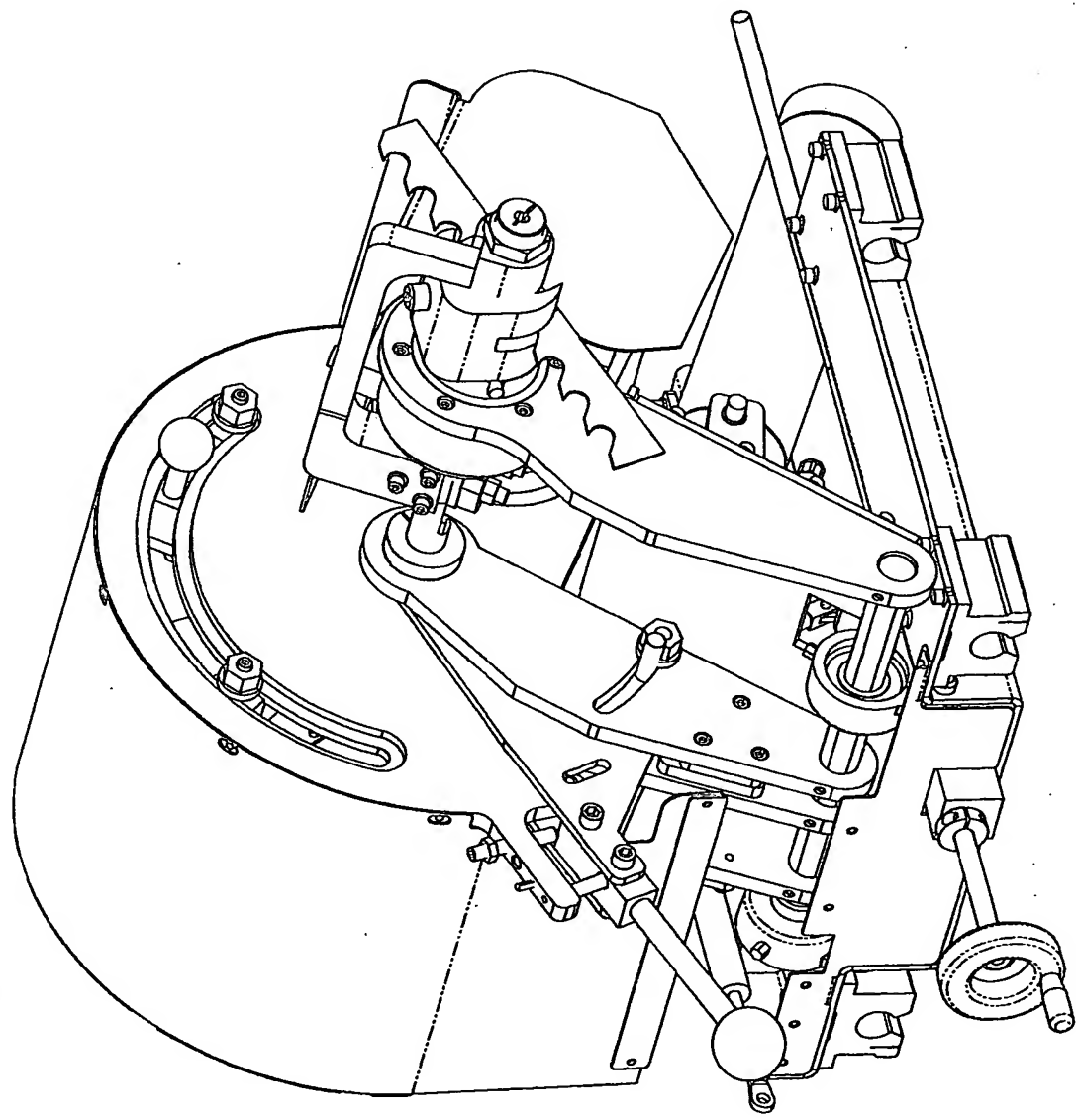


FIG. 8

REV. DATE	DESCRIPTION	FOR BY
23	REVISIONS	
TOLERANCES UNLESS OTHERWISE SPECIFIED: FRACTIONS: .001" .002" .005" .010" .015" .020" .030" .040" .050" .060" .070" .080" .090" .100" .125" .150" .175" .200" .250" .300" .375" .500" .625" .750" .875" 1.000" DECIMALS: .001" .002" .005" .010" .015" .020" .030" .040" .050" .060" .070" .080" .090" .100" .125" .150" .175" .200" .250" .300" .375" .500" .625" .750" .875" 1.000" ANGLES: 1/2° 1° 1 1/2° 2° 3° 4° 5° 6° 8° 10° 15° 20° 25° 30° 35° 40° 45° 50° 55° 60° 65° 70° 75° 80° 85° 90° 95° 100° 105° 110° 115° 120° 125° 130° 135° 140° 145° 150° 155° 160° 165° 170° 175° 180°		
DRAWN BY: <i>Shawbury</i> CHECKED BY: <i>Shawbury</i> MANUFACTURED BY: <i>Shawbury</i> DATE: 10/10/00 SCALE: AS SHOWN		



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	18099	CYLINDER, BIMBA
2	1	18114	CYLINDER EYE
3	1	21146	MOUNTING HEAD, SWAGE
4	1	18263	SWAGE CLAMP MNTG BLOCK
5	2	18284	CLAMP ARM
6	4	9032-C38	CAPSCR. 1/4UNC SOC HD
7	4	9448-C26	WASHER, 1/4" HI COL LOCK
8	4	12199-C26	BUSHING, 5/8 X 3/4 X 1/2 LONG
9	2	12199-C17	BUSHING, 1/2 X 5/8 X 3/8
10	2	12199-C19	BUSHING, 1/2 X 5/8 X 1/2
11	1	21068	CLAMP CYL. MOUNT
12	2	9394-C100	SHLDR SCREW, 3/8 DIA.
13	4	9035-C75	CAPSCR. 3/16 UNC SOC HD
14	4	9448-C31	WASHER, 5/16" HI COL LOCK
15	2	7808-C26	ELBOW, 3/8NPT TO 3/8 TUBE
16	1	18122	LINK, CLAMP
17	2	21194	LINK
18	4	9392-C38	SHLDR SCREW, 1/4 DIA.
19	1	21212	NUFFLER, 3/8 NPT
20	2	9394-C200	SHLDR SCR. 5/8 DIA.
21	1	9395-C200	SHLDR SCR. 5/8 DIA.
22	2	9516-C50	NUT, 1/2 UNC ELASTIC LOCK
23	1	9516-C38	NUT, 1/2 UNC ELASTIC LOCK
24	2	12199-C24	BUSHING, 3/8 X 1/2 X 3/8 LONG
25	2	10945-C38	

FIG. 10A

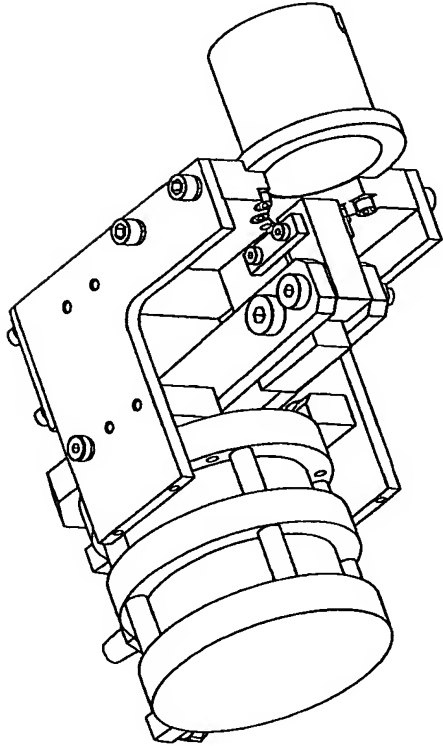
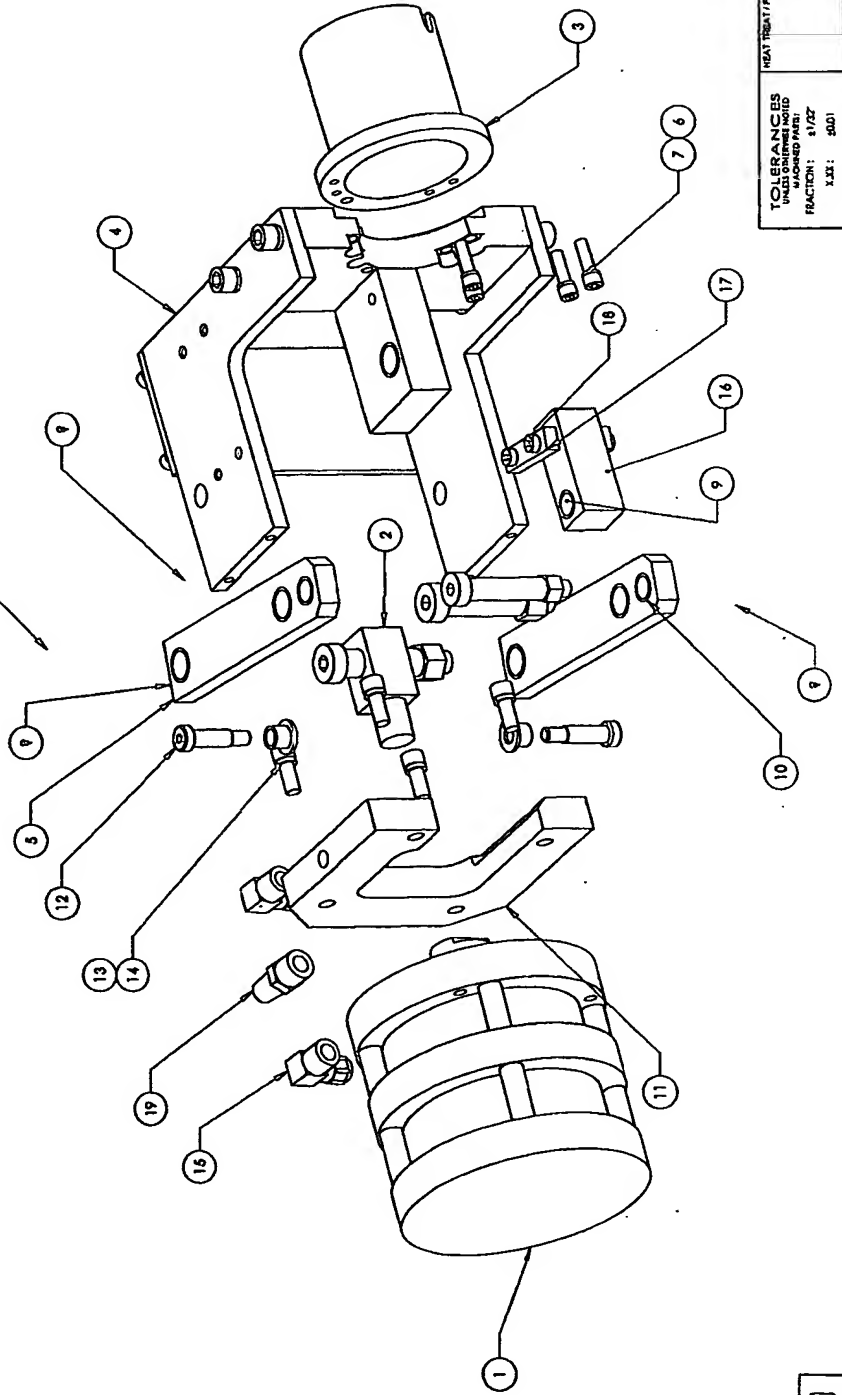


FIG. 10B



2	10/04	ITEM 14 S 9035-C75 WAS 9035-C75	JSW
1	12/1/00	REVISIONED	JSW
0	12/1/00	INITIAL RELEASE	JSW
REV DATE	DESCRIPTION	ECN	BY
1			
SCALE	1:3		
MODEL	SWAGE & SHAPE		
DESIGNED BY	JSW		
DATE	12/11/2003		
MATERIAL			

TOLERANCES	UNLESS OTHERWISE SPECIFIED
FRACTION	1/32
XXX	5001
XXX	5005

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EXPLODED VIEW

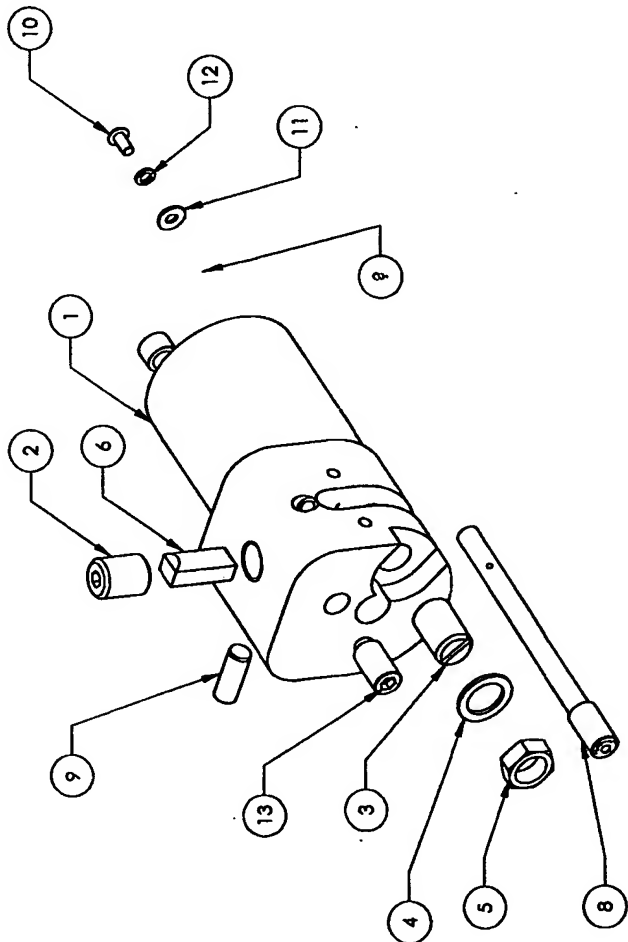


FIG. 11A

REAR VIEW

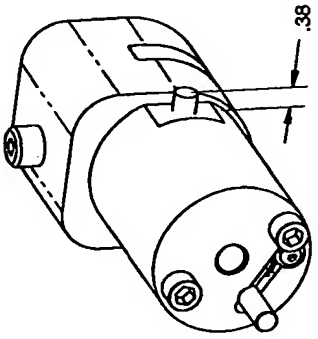


FIG. 11C

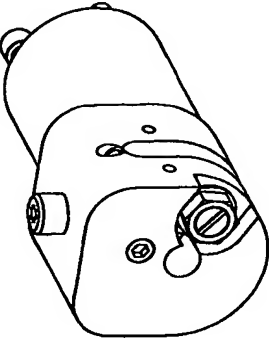


FIG. 11B

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	21227	SWAGE HEAD, 5/8" DIA DIE
2	1	113	TOP SCREW, SWAGE ANVIL
3	1	45-C	CLAMP SCREW, STATIONARY
4	1	4072	WASHER, NYLON
5	1	218	NUT, LOCK 11/16-11
6	1	90-C	ANVIL
7	1	18202	SWAGESAW GUIDE
8	1	21215	ASSM, CLAMP PLUNGER
9	1	10032-C16	PIN, STEEL DOWEL
10	1	9061-C38	CAPSCR, #10 UNC BTN HD
11	1	9443-C10	WASHER, #10 NOM TYPE A PL
12	1	9451-C10	WASHER, #10 HELICAL LOCK
13	1	9251-C	SET SCREW 1/2-UNF HD
14	1	21162	RETAINER CLIP
15	2	9034-C100	CAPSCR, 3/8UNC SOC HD
16	1	CLAMP SPR	SWAGE CLAMP SPRING
17	1	A-110-FOR	DESIGN MAKE NEW

0	12/22/2003	INITIAL RELEASE	XXXX	JSW
REV	DATE	DESCRIPTION	ECN	BY
REVISIONS				
SCALE	1:2	NAME	ASSM, SWAGE HEAD 825	
MOD		SWAGE & SHAPE		
DRAWN BY		JSW		
DATE	12/22/2003			
<div><div><i>Armstrong</i></div><div>MANUFACTURING CO.</div></div> <div>2135 N.W. 21ST AVE. PORTLAND, OR 97210</div> <div>PH: 503-228-8381 FAX: 503-228-8384</div>				

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MANUFACTURING CO.  
2135 NW 21ST AVE  
PORTLAND, OR 97210  
PH: 503-228-6381  
FAX: 503-228-6384

SHEET 1 OF 1		C-18066	REV 0
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	4	9032-C100	CAPSCR. 1/4UNC SOC HD
2	4	9448-C25	WASHER. 1/4" HI COL LOCK
3	1	21174	BEARING. RADIAL
4	1	18078	SWAGE HEAD MOUNT
5	1	21067	SWAGE PLATE

FIG. 12A

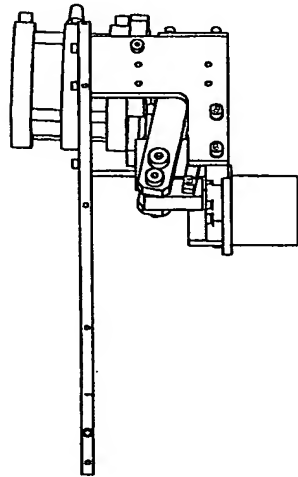


FIG. 12B

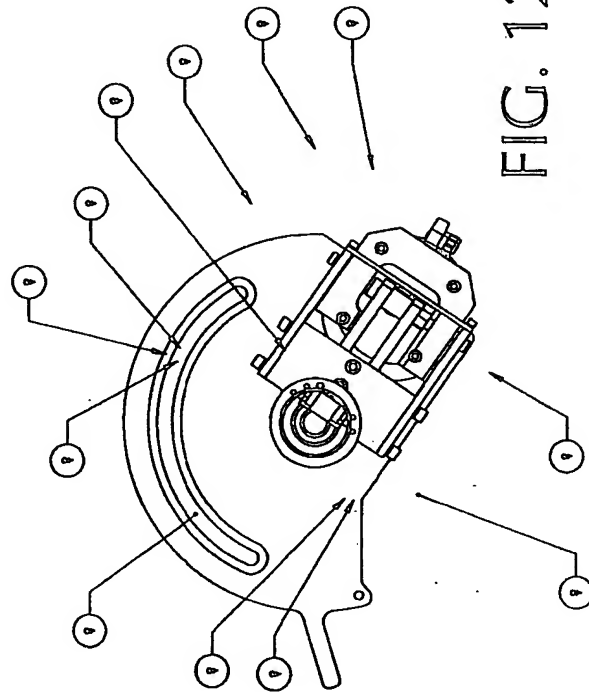
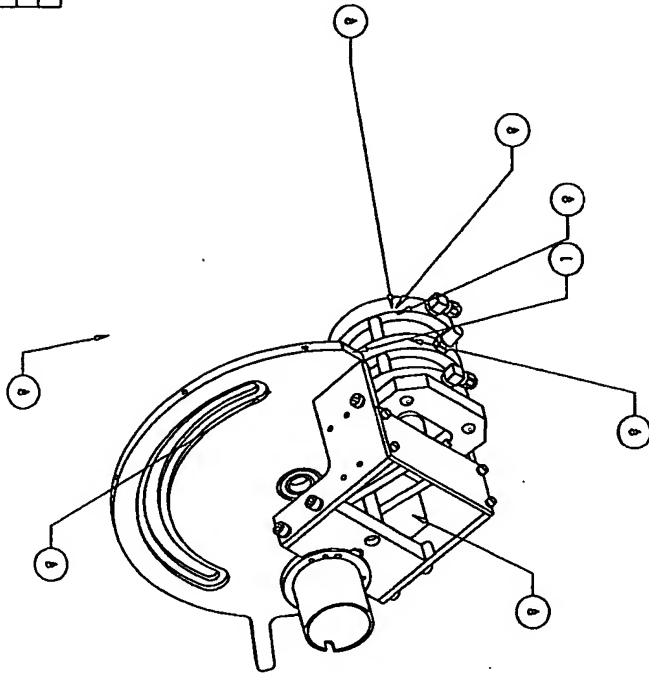


FIG. 12C

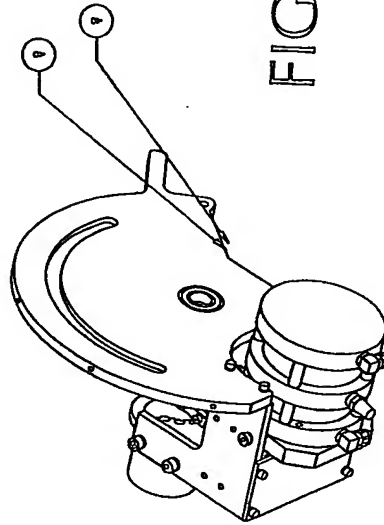


FIG. 12D

TOLERANCES  
UNLESS OTHERWISE NOTED  
FRACTION: 1/32  
X.XX: .001  
X.XXX: .0005

HEAT TREAT/FINISH

REV	DATE	DESCRIPTION	ECN	BY
0	5/19/2003	INITIAL RELEASE		DEG

REVISIONS

NAME

SWAGE MASTER ASSY

SCALE

1:1

SWAGE & SHAPE

DEG

DATE

5/19/2003

MATERIAL

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SHEET 1 OF 1			C-18263	REV 0
ITEM NO.	QTY.	PART NO.	DESCRIPTION	
1	1	18262	CLAMP BLOCK	
2	1	18260	CYLINDER SUPPORT BLOCK	
3	1	18259	CYLINDER SUPPORT BLOCK	
4	1	18261	CLEVIS BLOCK	
5	5	9034-C73	CAPSCR, 3/8UNC SOCHD	
6	1	9034-C103	CAPSCR, 3/8UNC SOCHD	
7	1	12199-C18	BUSHING, 5/8" X 3/4" X 1"	
8	4	9448-C38	WASHER, 3/8" HI COLLOCK	
9	1	21069	PLATE-3	
10	4	9448-C25	WASHER, 1/4" HI COLLOCK	
11	4	9032-C50	CAPSCR, 1/4UNC SOCHD	
12	1	10032-C8	PIN, STEEL DOWEL	

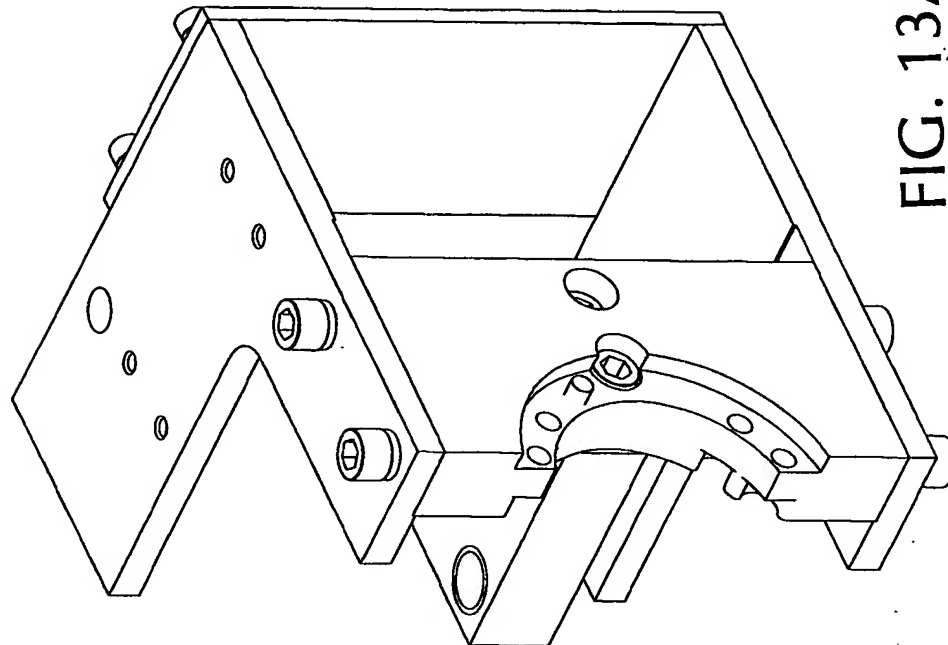


FIG. 13A

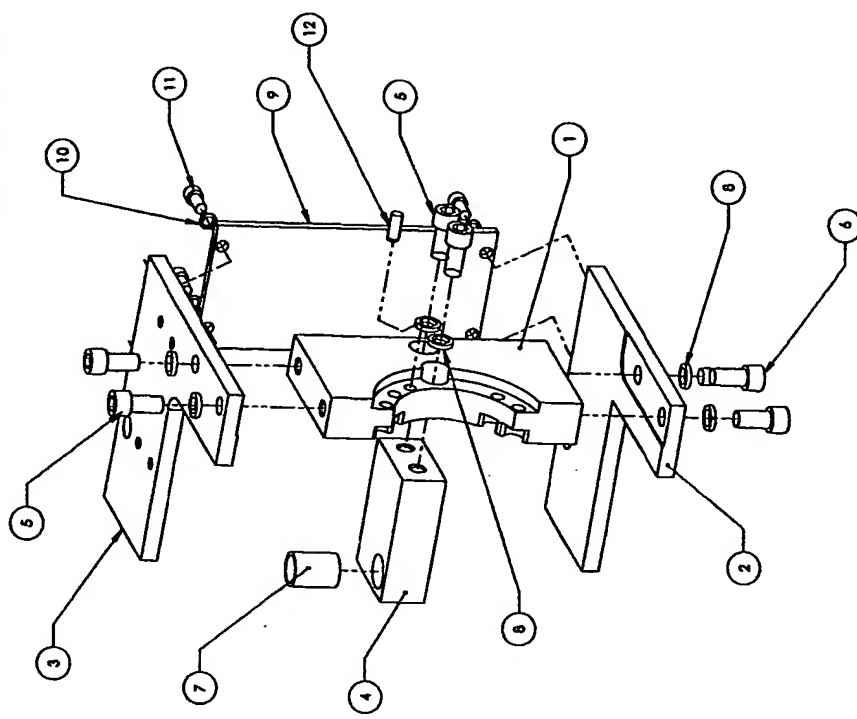


FIG. 13B

LOCK TIGHT ALL FASTENERS IN PLACE  
WITH LOCKTIGHT #242  
DO NOT USE LOCK WASHER

TOLERANCES UNLESS OTHERWISE NOTED		HEAT TREAT / FINISH		SCALE 1:1		NAME	
FRACTION: 1/32"				CHECK SWAGE & SHAPE		SWAGE CLAMP INTO BLOCK	
X.XX: .001				DESIGNED BY: JSW			
X.XXX: .0005		MATERIAL:		DATE: 5/24/2003			
				REVISIONS			
				1			
				REV DATE DESCRIPTION ECN BY			
				0 5/24/2003 INITIAL RELEASE JSW			

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ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	18135	SADDLE WELDMENT, SWAGE
2	2	18118	BEARING FLANGE CHEVERON 1"
3	4	21246	PILLOW BLOCK, ALTERED
4	16	9448-C25	WASHER, 1/4" HI COL LOCK
5	16	9050-C63	CAPSCR, 1/4 UNF SOC HD
6	6	9007-C100	CAPSCR.3/BUNC HEX GR5 PLT
7	6	9451-C38	WASHER, 3/8 HELICAL LOCK

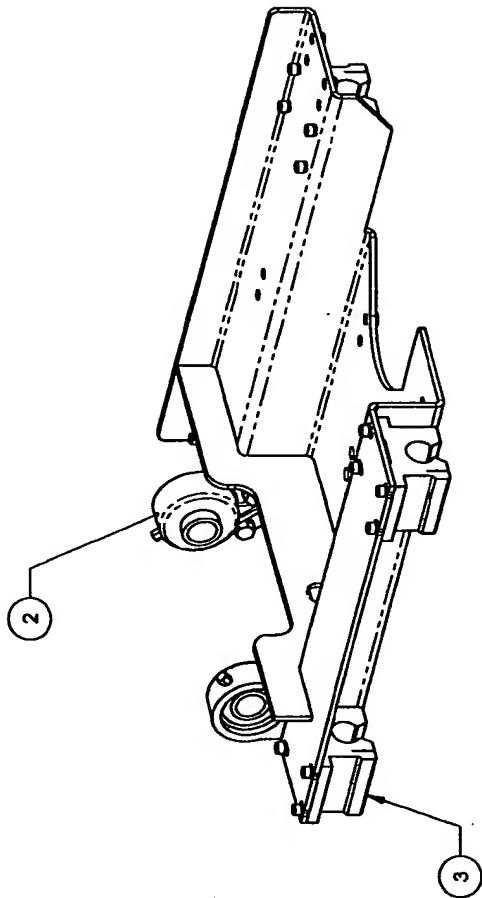


FIG. 14A

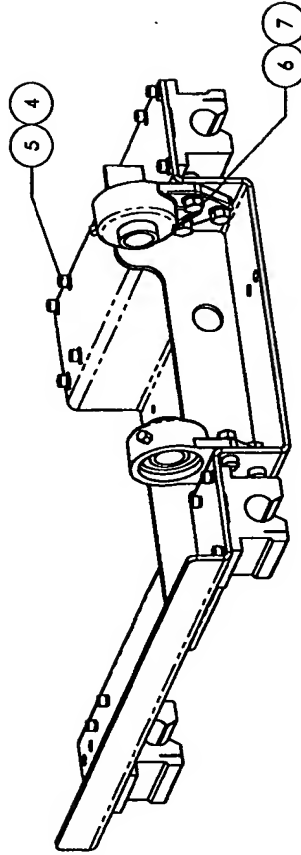


FIG. 14B

REV	DATE	DESCRIPTION	ECN	BY
2	21/2/03	REDISIGN	XXXX	JSW
1	1/15/04	ITEM 3 WAS 14591 IS 21246 ITEM 4 WAS 9448-C100 IS 9448-C25 ITEM 5 WAS 9050-C63 IS 9050-C63	XXXX	JSW
0	11/20/2003	INITIAL RELEASE	XXXX	JSW

REV	DATE	DESCRIPTION	ECN	BY
0	11/20/2003	INITIAL RELEASE	XXXX	JSW

SCALE	1:4	NAME	SUB FRAME SWAGE CARRIAGE
MODE	SWAGE & SHAPE	DRAWN BY	JSW
DATE	11/20/2003		

<b>TOLERANCES</b> UNLESS OTHERWISE NOTED MACHINED PARTS: FRACTION: ±1/32" DEC: ±0.01 X.XXX: ±0.005 ANGLE XX°: ±0.5°		HEAT TREAT / FINISH  MATERIAL
---	--	-------------------------------------

*Armstrong*

MANUFACTURING CO.  
2133 N.W. 21ST AVE.  
PORTLAND, OR 97210  
PH: 503-228-6381  
FAX: 503-228-6384

SHEET 1 OF 2			D-21082	REV 0
ITEM NO.	QTY	PART NO.	DESCRIPTION	
1	1	21054	PNGT PLATE-1	
2	1	21055	PNGT PLATE-2	
3	1	21057	PNGT PLATE-3	
4	1	21059	BLOCK-1	
5	1	21060	PNGT PLATE-4	
6	1	21171	BEARING ASST. SW/4211 HQ	
7	1	21081	PLATE-5	
8	5	9431-63	CAPSCN, 1/4 INCH 502 HD	
9	5	9431-63	WASHER 1/4 INCH 502 HD	
10	5	9431-63	CAPSCN, 1/4 INCH 502 HD	
11	5	9431-63	WASHER 1/4 INCH 502 HD	
12	1	9431-63	WASHER 1/4 INCH 502 HD	
13	4	9145-543	STIFFEN 1/4 INCH 502 HD CR FT	
14	4	31174	BEARING, RADIAL	
15	2	91274	BRONZE BAR	
16	1	21054	ALOCK	

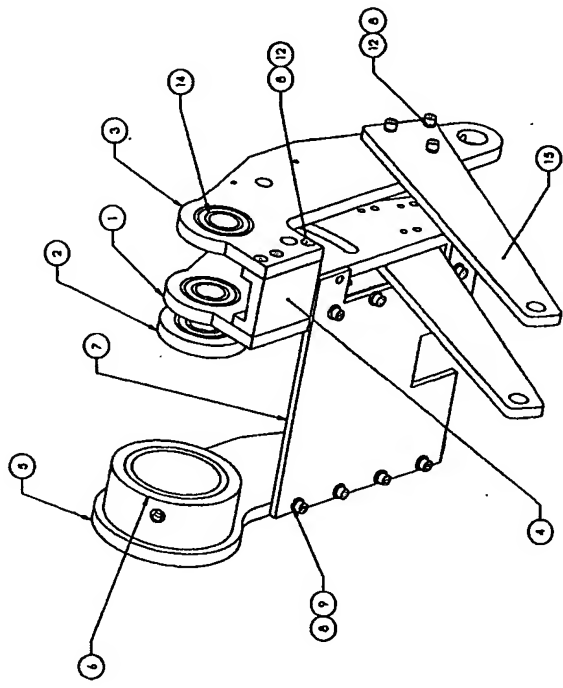


FIG. 15A

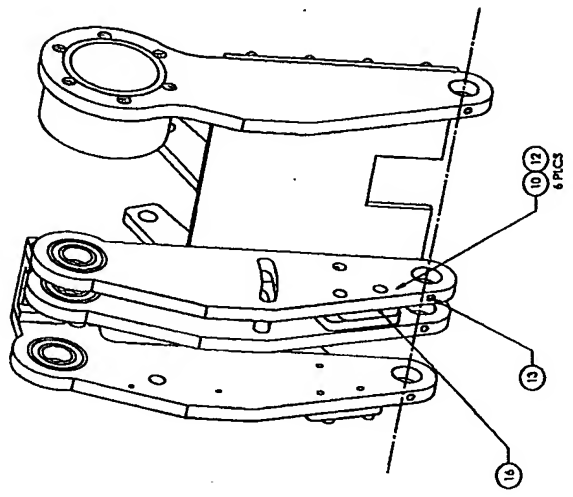


FIG. 15B

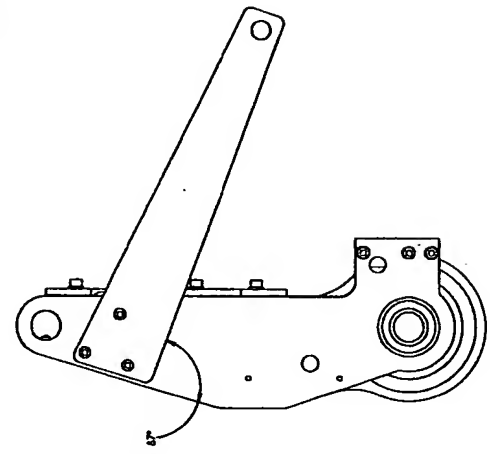


FIG. 15C

REVISION	DATE	BY
1	1/1/2000	1
2	1/1/2000	2
3	1/1/2000	3
4	1/1/2000	4
5	1/1/2000	5
6	1/1/2000	6
7	1/1/2000	7
8	1/1/2000	8
9	1/1/2000	9
10	1/1/2000	10
11	1/1/2000	11
12	1/1/2000	12
13	1/1/2000	13
14	1/1/2000	14
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97	1/1/2000	97
98	1/1/2000	98
99	1/1/2000	99
100	1/1/2000	100

SHEET 1 OF 2			D-21125	REV 0
ITEM NO.	QTY	PART NO.	DESCRIPTION	
1	1	21113	ASSY. SHAVER HEAD	
2	1	21241	CLAMP, ALUMINUM	
3	1	18113	SHAVER LEVER ARM	
4	1	21114	CUTL. BORE X 2 1/2" SHOCK	
5	1	21115	SHOCK SPRING, 1/2" SHOCK	
6	1	21116	SHOCK SPRING, 1/2" SHOCK	
7	1	21119	NOCK, SHAVER PHOTO	
8	1	21113-8	NOCK, SHAVER FRAME	
9	1	21113-1	LEFT SIDE SHAVER FRAME	
10	1	21120	RIGHT SHAVER FRAME	
11	2	20308-53	PLUG BUSHING 1/2" X 3/4" X 1 1/2"	
12	2	20308-52	PLUG BUSHING 1/2" X 3/4" X 1 1/2"	
13	1	18146-23	WASHER, 1/2" X 3/4" LOCK	
14	4	18044-250	CAPSC. 3/8" UNC. 300 HD	
15	11	18146-150	WASHER, 5/16" X 3/8" LOCK	
16	17	18035-250	CAPSC. 3/8" UNC. 300 HD	
17	2	18035-274	CAPSC. 3/8" UNC. 300 HD	
18	2	18035-274	CAPSC. 3/8" UNC. 300 HD	
19	1	18035-274	CAPSC. 3/8" UNC. 300 HD	
20	1	18035-274	CAPSC. 3/8" UNC. 300 HD	
21	1	18035-274	CAPSC. 3/8" UNC. 300 HD	
22	1	18035-274	CAPSC. 3/8" UNC. 300 HD	
23	1	18035-274	CAPSC. 3/8" UNC. 300 HD	
24	1	18035-274	CAPSC. 3/8" UNC. 300 HD	
25	1	18035-274	CAPSC. 3/8" UNC. 300 HD	
26	1	18035-274	CAPSC. 3/8" UNC. 300 HD	
27	1	18035-274	CAPSC. 3/8" UNC. 300 HD	
28	1	18035-274	CAPSC. 3/8" UNC. 300 HD	
29	1	18035-274	CAPSC. 3/8" UNC. 300 HD	
30	1	18035-274	CAPSC. 3/8" UNC. 300 HD	
31	2	18035-274	CAPSC. 3/8" UNC. 300 HD	
32	1	18035-274	CAPSC. 3/8" UNC. 300 HD	
33	2	18035-274	CAPSC. 3/8" UNC. 300 HD	

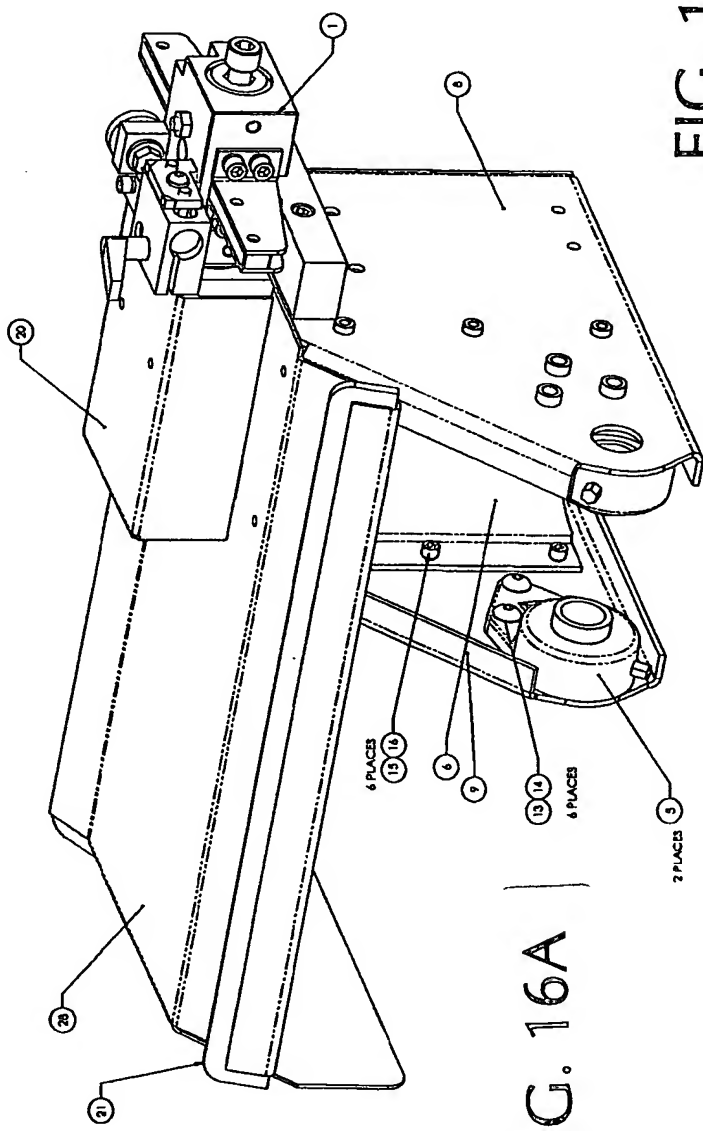


FIG. 16A

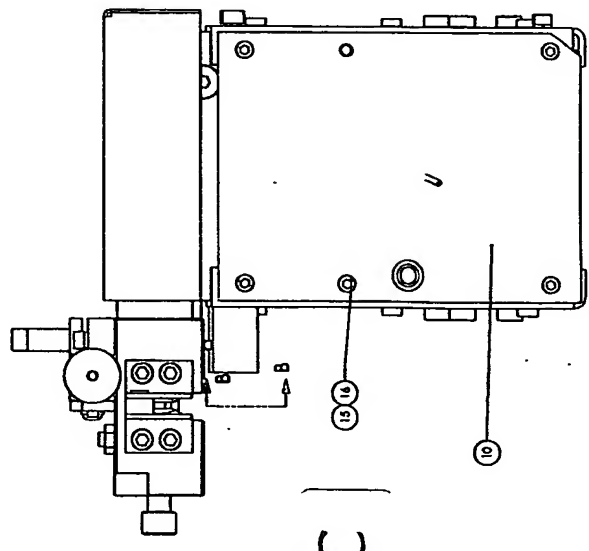
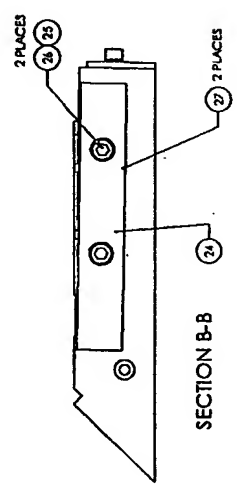


FIG. 16C



SECTION B-B

FIG. 16B

REV	DATE	DESCRIPTION	ECN	BY
1				
2				
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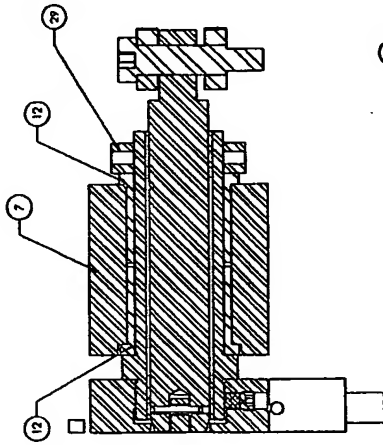


FIG. 17B

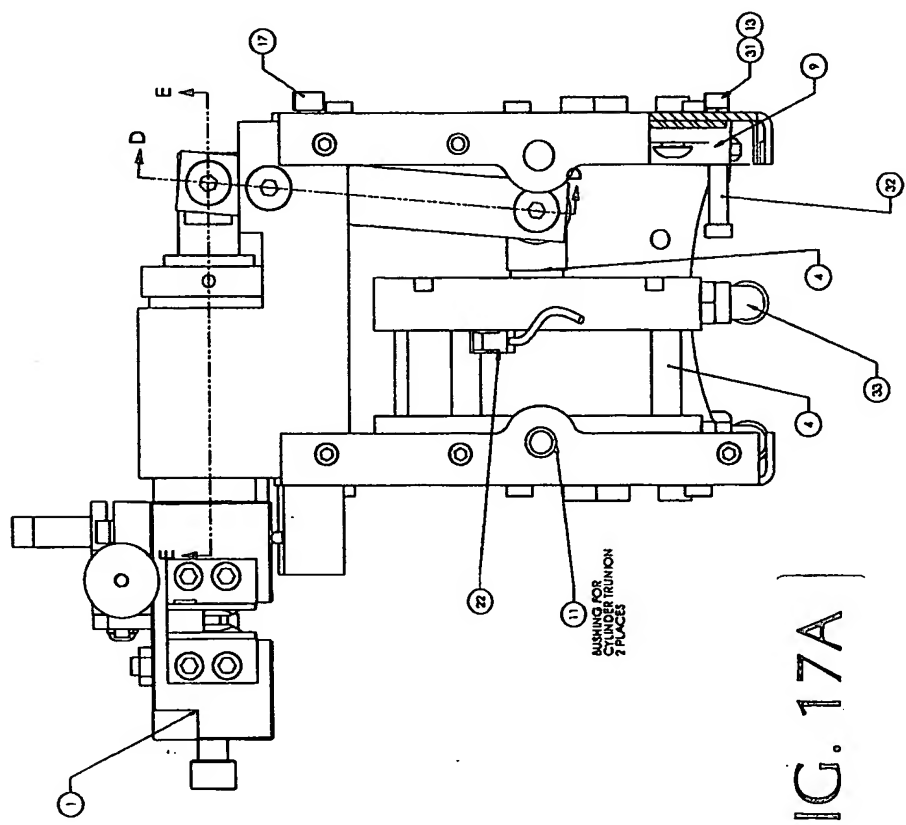


FIG. 17A

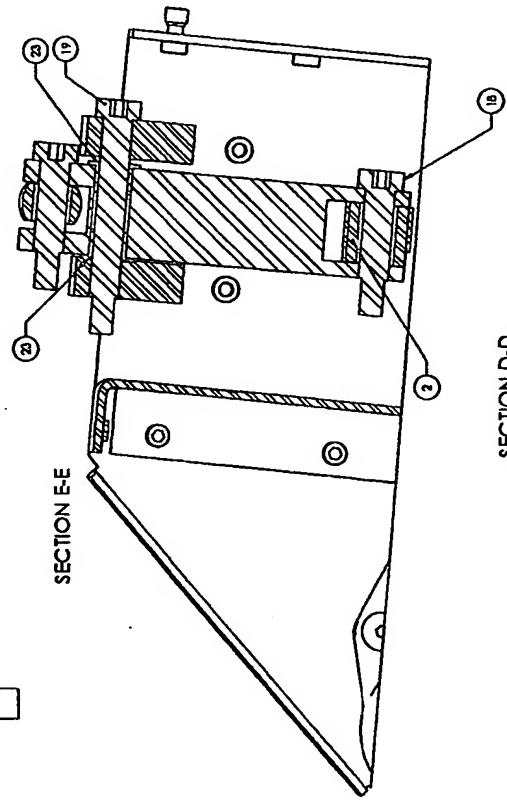


FIG. 17C

REV	DATE	DESCRIPTION	BY	CHK
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100	11/11/11	REVISED	BY	CHK



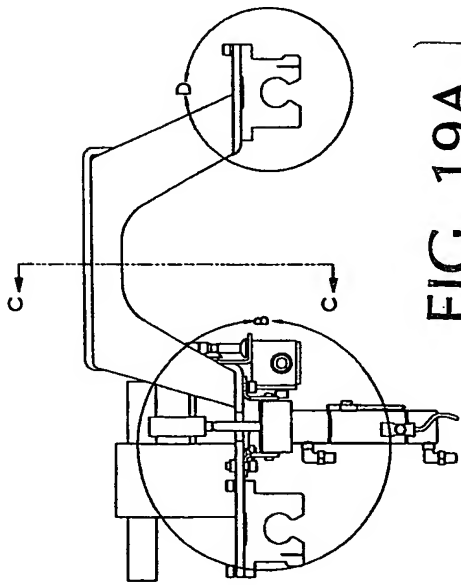
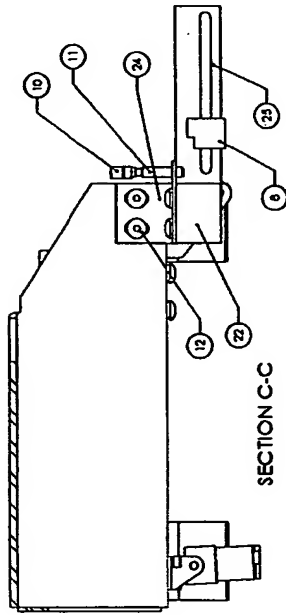


FIG. 19A

FIG. 19B



SECTION C-C

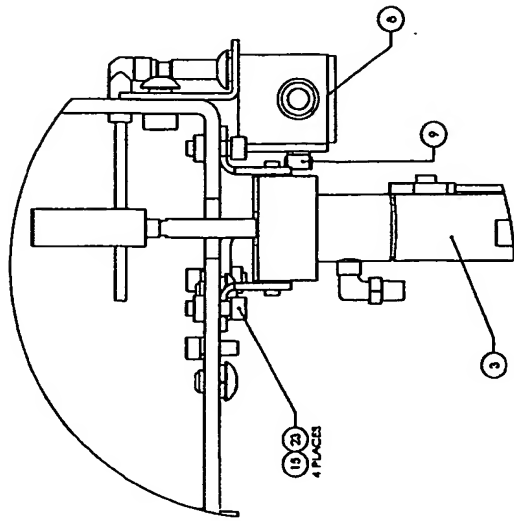
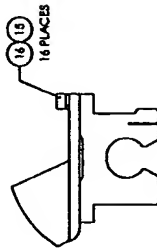


FIG. 19C



DETAIL D  
SCALE 2:3

FIG. 19E

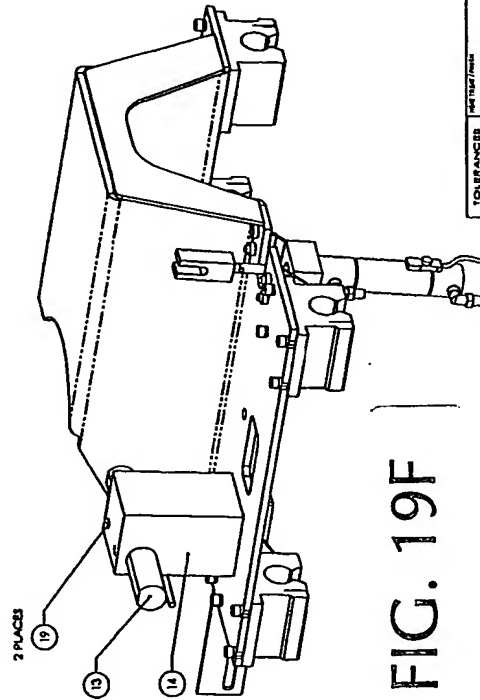


FIG. 19F

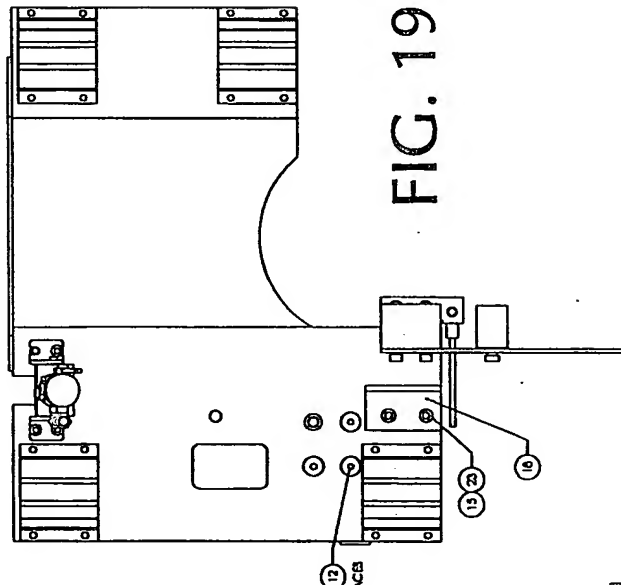


FIG. 19G

REV	DATE	DESCRIPTION	BY	CHK
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TOLERANCES  
UNLESS SPECIFIED  
FRACTIONS  
DECIMALS  
ANGLES  
HOLE TYP / PINS

Manufacturing

MANUFACTURING CO.

1000 W. 10TH ST. SUITE 100  
DENVER, CO 80202

132 SHEET 2 OF 2



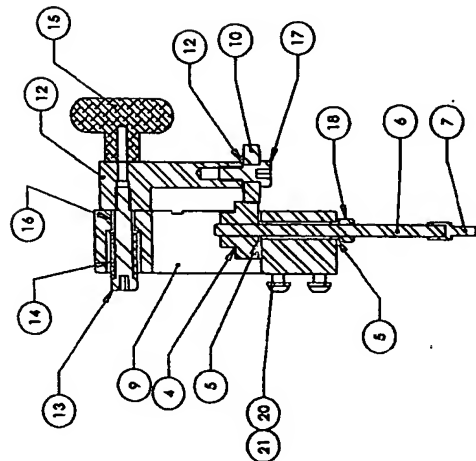


FIG. 21A

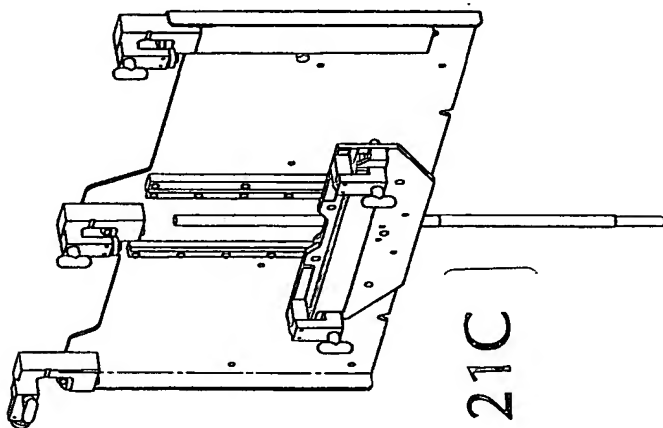


FIG. 21C

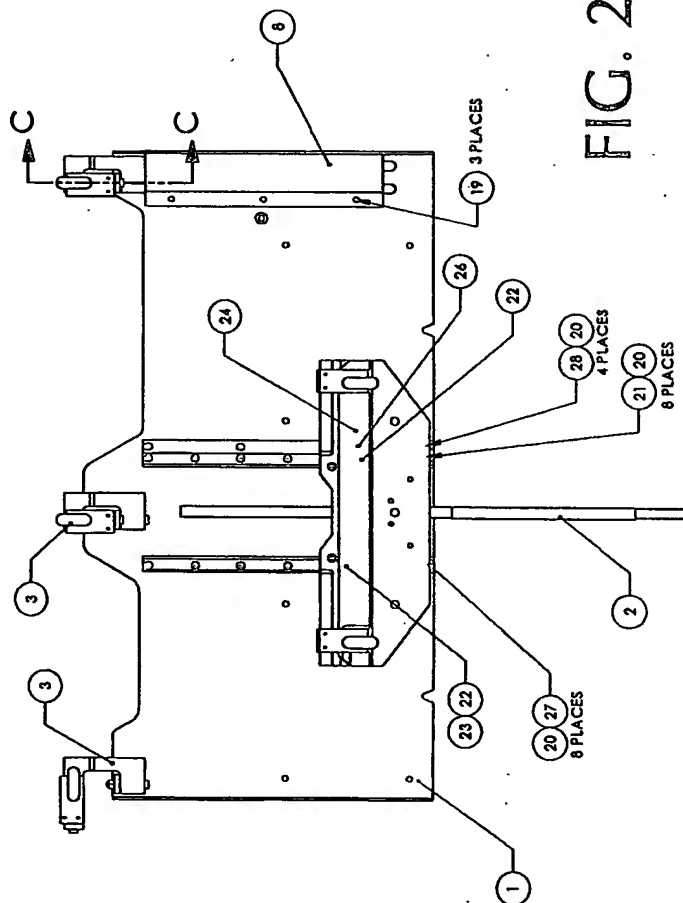
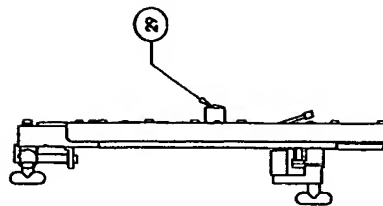


FIG. 21B

FIG. 21D



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	18154	PLATE, SAW CARRIAGE
2	1	5490	SCREW, 3/4UNC X 32.5 LONG
3	2	21311	ASSY. SAW CLAMP
4	1	21087	ROLLER, NEOPRENE DRIVE
5	2	12038-C10	RNG BSHNG 1/4 X 3/8 X 3 1/8"
6	1	9701-C25-4 LONG	1/4 DIA. 1018CD
7	1	21089	FLX SHAFT
8	1	21093	COVER, ENCODER CABLE
9	1	21172	BLOCK, PIVOT
10	1	18158	ROLLER, URETHANE
11	1	12050-C1	WASHER, THRUST
12	1	21173	ARM, CLAMP
13	1	9394-C160	SHldr SCREW, 3/8 DIA.
14	1	3307	SPRING, COMPRESSION, 9/16 OD
15	1	14105	KNOB, T HANDLE
16	1	12038-C2	RNG BSHNG 3/8 X 1/2 X 1 1/2"
17	1	9394-C38	SHldr SCREW, 3/8 DIA.
18	1	6217-C25	COLLAR, SET 1/4 X 1/2
19	3	9061-C38	CAPSCR, Ø10 UNC BTH HD
20	24	9461-C25	WASHER, 1/4 HELICAL LOCK
21	13	9062-C63	CAPSCR, 1/4UNC SOC BTH HEAD
22	2	21286	RAIL, V. ALTERED
23	1	21287	SUPPORT, RAIL
24	1	21290	ASSY. CARBIDE SAW CARRIAGE
25	1	21289	NUT, SAW LIFT
26	1	21288	RAIL, SUPPORT, ADJUSTABLE
27	7	9062-C125	CAPSCR, 1/4UNC SOC BTH HEAD
28	4	9062-C100	CAPSCR, 1/4UNC SOC BTH HEAD
29	1	14224	BUMPER, URETHANE
30	1	9448-C50	WASHER, 1/2 HI COL LOCK
31	1	9062-C63	CAPSCR, 1/4UNC SOC HD

1	11/03	DESIGNED	XXXX	T/J
0	11/12/2000	ISSUED	TM	
REV	DATE	DESCRIPTION	ECN	BY
REVISIONS				
SCALE	1:5	NAME	ASSY. SAW SUPPORT	
DATE	11/12/2000	DATE		
TOLERANCES UNLESS OTHERWISE NOTED FRACTION: 1/32 DEC: .001 XXX: .0005				
MATERIAL				
MANUFACTURING CO.				

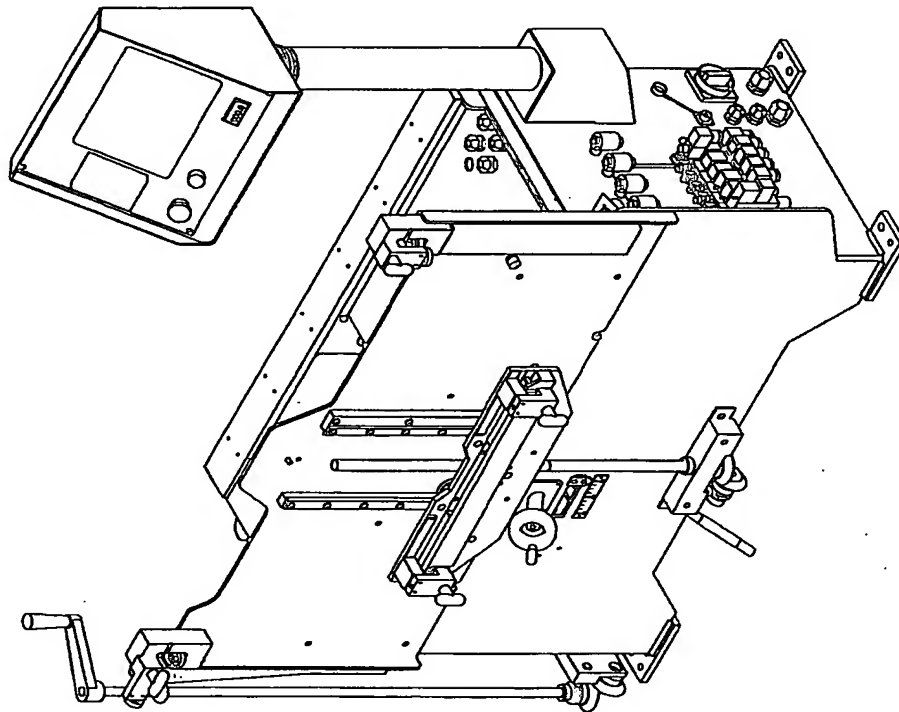


FIG. 22

ITEM NO.	QTY	PART NO.	DESCRIPTION	REV 0
1	1	10144	INDEX ASST	
2	1	10235	ASSY LOWER FRAME	
3	1	21271	ASSY. CONSOLE W/ WIRE	
4	1	10032	ASSY. BACK PANEL	
5	1	10176	ASSY. JAW SUPPORT	
6	1	10060	COVER ELECTRICAL CAB	
7	1	10041	COVER DRIVE ACCESS	
8	10	12770	CORD GRIP 1/2" HT. R. 24.0/21	
9	4	10683	WIRE CAPPING	
10	4	10683	WIRE CAPPING	
11	1	21091	WIRE CAPPING	
12	1	21091	WIRE CAPPING	
13	1	21091	WIRE CAPPING	
14	1	21091	WIRE CAPPING	
15	1	21091	WIRE CAPPING	
16	2	21091	WIRE CAPPING	
17	1	21091	WIRE CAPPING	
18	1	21091	WIRE CAPPING	
19	3	6317-5/8	COLLAR SET 3/8 X 1 1/8	
20	3	12178	BEARING, 300 END	
21	1	21181	BLOCK, JAW LIFT	
22	1	21182	SUPPORT, 300 JAW LIFT	
23	4	387	GRAS, 3/8" DIA. X 21 LONG	
24	1	387	GRAS, 3/8" DIA. X 21 LONG	
25	1	387	GRAS, 3/8" DIA. X 21 LONG	
26	1	387	GRAS, 3/8" DIA. X 21 LONG	
27	1	1437	ACTUATOR HANDLE	
28	2	1438	CORD GRIP 3/4" HT. R. 23.0/23	
29	1	1440	RECEPTACLE SQUARE HANGER	
30	1	1441	BRACKET MOUNTING	
31	1	1442	BRACKET MOUNTING	
32	1	1443	BRACKET MOUNTING	
33	2	1444	WASHER, SPHERICAL 3/8" BOLT	
34	7	1445	CONNECTOR, SOLIDOID, 24VDC	
35	3	21098	EXTANT, CRICK, 1/2" HT	
36	1	21099	ASSY. CABLE CRANK	
37	1	21100	HANDLES ASSEMBLED	
38	1	21101	CABLE ACTUATOR	
39	1	21102	CABLE BRACKET	
40	1	21103	LOCK PLATE INDICATOR PLATE	
41	1	21104	LOCK PLATE INDICATOR PLATE	
42	1	14407	LOCK PLATE INDICATOR PLATE	

REV 0	DATE 10/1/00	DESCRIPTION	BY
REV 1	DATE 10/1/00	DESCRIPTION	BY
REV 2	DATE 10/1/00	DESCRIPTION	BY
REV 3	DATE 10/1/00	DESCRIPTION	BY
REV 4	DATE 10/1/00	DESCRIPTION	BY
REV 5	DATE 10/1/00	DESCRIPTION	BY
REV 6	DATE 10/1/00	DESCRIPTION	BY
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REV 12	DATE 10/1/00	DESCRIPTION	BY
REV 13	DATE 10/1/00	DESCRIPTION	BY
REV 14	DATE 10/1/00	DESCRIPTION	BY
REV 15	DATE 10/1/00	DESCRIPTION	BY
REV 16	DATE 10/1/00	DESCRIPTION	BY
REV 17	DATE 10/1/00	DESCRIPTION	BY
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REV 91	DATE 10/1/00	DESCRIPTION	BY
REV 92	DATE 10/1/00	DESCRIPTION	BY
REV 93	DATE 10/1/00	DESCRIPTION	BY
REV 94	DATE 10/1/00	DESCRIPTION	BY
REV 95	DATE 10/1/00	DESCRIPTION	BY
REV 96	DATE 10/1/00	DESCRIPTION	BY
REV 97	DATE 10/1/00	DESCRIPTION	BY
REV 98	DATE 10/1/00	DESCRIPTION	BY
REV 99	DATE 10/1/00	DESCRIPTION	BY
REV 100	DATE 10/1/00	DESCRIPTION	BY

SHEET 1 OF 1		D-21271	REV 0
ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	21271	WHEEL COUSIN LUBE
2	1	21272	WHEEL COUSIN LUBE
3	1	21273	WHEEL COUSIN LUBE
4	1	21274	WHEEL COUSIN LUBE
5	1	21275	WHEEL COUSIN LUBE
6	1	21276	WHEEL COUSIN LUBE
7	1	21277	WHEEL COUSIN LUBE
8	1	21278	WHEEL COUSIN LUBE
9	1	21279	WHEEL COUSIN LUBE
10	1	21280	WHEEL COUSIN LUBE
11	1	21281	WHEEL COUSIN LUBE
12	1	21282	WHEEL COUSIN LUBE
13	1	21283	WHEEL COUSIN LUBE
14	1	21284	WHEEL COUSIN LUBE
15	1	21285	WHEEL COUSIN LUBE
16	1	21286	WHEEL COUSIN LUBE
17	1	21287	WHEEL COUSIN LUBE
18	1	21288	WHEEL COUSIN LUBE
19	1	21289	WHEEL COUSIN LUBE
20	1	21290	WHEEL COUSIN LUBE
21	1	21291	WHEEL COUSIN LUBE
22	1	21292	WHEEL COUSIN LUBE
23	1	21293	WHEEL COUSIN LUBE
24	1	21294	WHEEL COUSIN LUBE
25	1	21295	WHEEL COUSIN LUBE
26	1	21296	WHEEL COUSIN LUBE
27	1	21297	WHEEL COUSIN LUBE
28	1	21298	WHEEL COUSIN LUBE
29	1	21299	WHEEL COUSIN LUBE
30	1	21300	WHEEL COUSIN LUBE
31	1	21301	WHEEL COUSIN LUBE
32	1	21302	WHEEL COUSIN LUBE
33	1	21303	WHEEL COUSIN LUBE
34	1	21304	WHEEL COUSIN LUBE
35	1	21305	WHEEL COUSIN LUBE
36	1	21306	WHEEL COUSIN LUBE
37	1	21307	WHEEL COUSIN LUBE
38	1	21308	WHEEL COUSIN LUBE
39	1	21309	WHEEL COUSIN LUBE
40	1	21310	WHEEL COUSIN LUBE
41	1	21311	WHEEL COUSIN LUBE
42	1	21312	WHEEL COUSIN LUBE
43	1	21313	WHEEL COUSIN LUBE
44	1	21314	WHEEL COUSIN LUBE
45	1	21315	WHEEL COUSIN LUBE
46	1	21316	WHEEL COUSIN LUBE
47	1	21317	WHEEL COUSIN LUBE
48	1	21318	WHEEL COUSIN LUBE
49	1	21319	WHEEL COUSIN LUBE
50	1	21320	WHEEL COUSIN LUBE
51	1	21321	WHEEL COUSIN LUBE
52	1	21322	WHEEL COUSIN LUBE
53	1	21323	WHEEL COUSIN LUBE
54	1	21324	WHEEL COUSIN LUBE
55	1	21325	WHEEL COUSIN LUBE
56	1	21326	WHEEL COUSIN LUBE
57	1	21327	WHEEL COUSIN LUBE
58	1	21328	WHEEL COUSIN LUBE
59	1	21329	WHEEL COUSIN LUBE
60	1	21330	WHEEL COUSIN LUBE
61	1	21331	WHEEL COUSIN LUBE
62	1	21332	WHEEL COUSIN LUBE
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66	1	21336	WHEEL COUSIN LUBE
67	1	21337	WHEEL COUSIN LUBE
68	1	21338	WHEEL COUSIN LUBE
69	1	21339	WHEEL COUSIN LUBE
70	1	21340	WHEEL COUSIN LUBE
71	1	21341	WHEEL COUSIN LUBE
72	1	21342	WHEEL COUSIN LUBE
73	1	21343	WHEEL COUSIN LUBE
74	1	21344	WHEEL COUSIN LUBE
75	1	21345	WHEEL COUSIN LUBE
76	1	21346	WHEEL COUSIN LUBE
77	1	21347	WHEEL COUSIN LUBE
78	1	21348	WHEEL COUSIN LUBE
79	1	21349	WHEEL COUSIN LUBE
80	1	21350	WHEEL COUSIN LUBE
81	1	21351	WHEEL COUSIN LUBE
82	1	21352	WHEEL COUSIN LUBE
83	1	21353	WHEEL COUSIN LUBE
84	1	21354	WHEEL COUSIN LUBE
85	1	21355	WHEEL COUSIN LUBE
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87	1	21357	WHEEL COUSIN LUBE
88	1	21358	WHEEL COUSIN LUBE
89	1	21359	WHEEL COUSIN LUBE
90	1	21360	WHEEL COUSIN LUBE
91	1	21361	WHEEL COUSIN LUBE
92	1	21362	WHEEL COUSIN LUBE
93	1	21363	WHEEL COUSIN LUBE
94	1	21364	WHEEL COUSIN LUBE
95	1	21365	WHEEL COUSIN LUBE
96	1	21366	WHEEL COUSIN LUBE
97	1	21367	WHEEL COUSIN LUBE
98	1	21368	WHEEL COUSIN LUBE
99	1	21369	WHEEL COUSIN LUBE
100	1	21370	WHEEL COUSIN LUBE

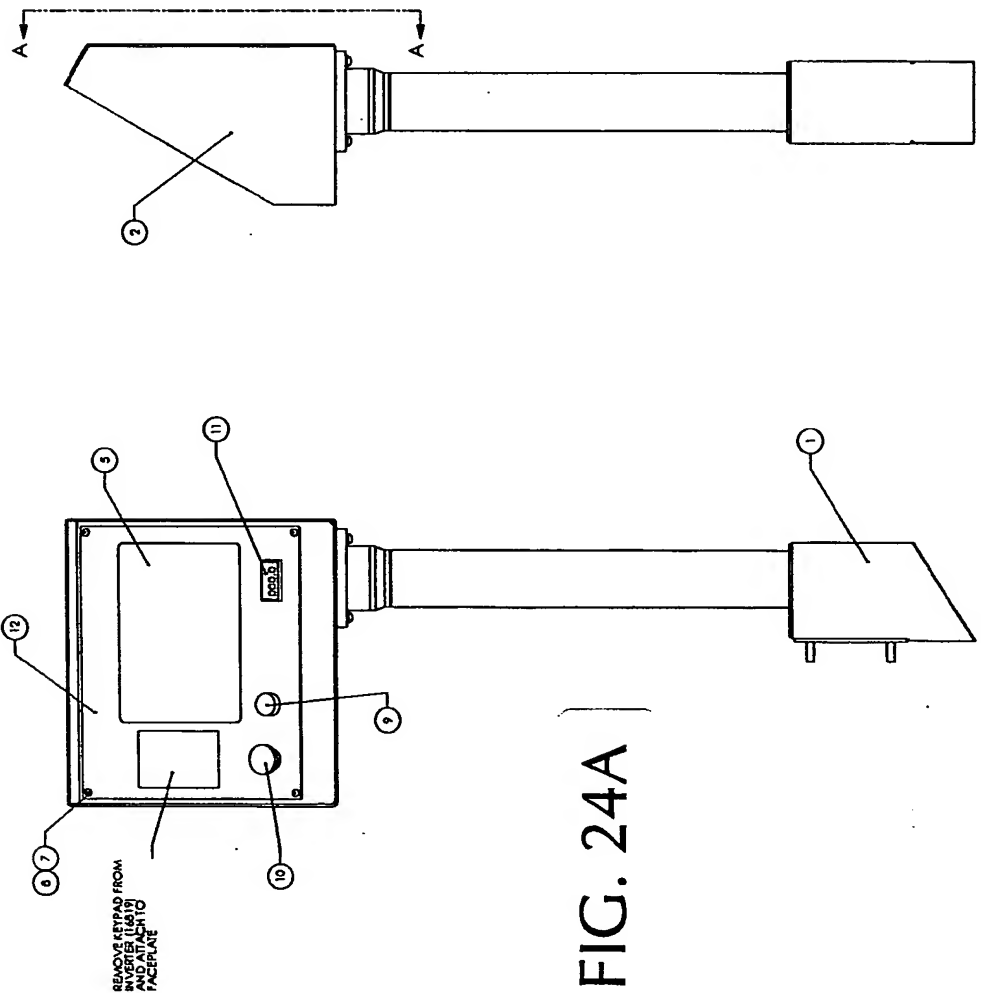


FIG. 24A

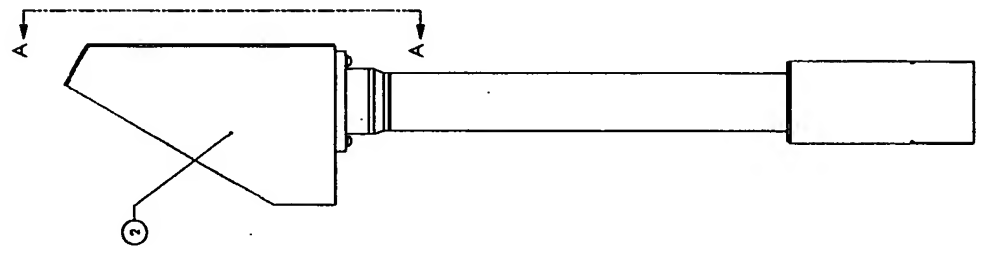


FIG. 24B

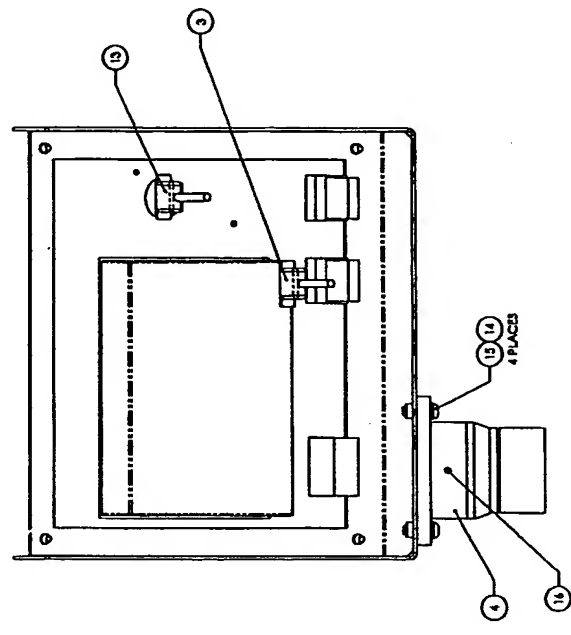


FIG. 24C

REV	DATE	DESCRIPTION	ECN	BY
1		REVISED		
2		REVISED		
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97		REVISED		
98		REVISED		
99		REVISED		
100		REVISED		

SHEET 1 OF 1 C-18258			REV 1
ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	18257	GEAR MOTOR, RIGHT ANGLE, 3 PHASE, 38 RPM
2	1	18245	LINK ARM
3	4	45381	PILLOW BLOCK BEARING
4	1	21327	ARM, LOWER LINK
5	1	18252	T-NUT, ACME
6	1	18261	CAP, T-NUT SLIDER
7	1	18263	ASSY, GEARBOX AND SCREW
8	1	18046	SHATT, EXTENSION
9	1	18060	SHATT, PIVOT
10	2	18244	BLOCK, SHORT RISER
11	1	18247	BLOCK, CRANK ARM
12	2	9374-C63	SHLD SCREW, 3/8 DIA.
13	1	16043-C4	KEY, SQ
14	1	19139-C28	SET SCREW, 1/4 UNC CUP PT
15	2	18260	SENSOR, 8 MM PNP SHIELDED
16	1	9032-C60	CAPSCR, 1/4 UNC SOC HD
17	1	18689	CAM FOLLOWER, 1 IN. DIA.
18	1	18248	ARM, UPPER LINK
19	2	18047	BLOCK, RISER
20	1	18249	LINK, DRAG
21	1	18250	BLOCK, INDEX TO SADDLE MTG
22	1	21326	POINTER
23	8	2038-C1	FLNG BSHNG 3/8" X 1/2" X 1/4"
24	2	9374-C160	SHLD SCREW, 3/8 DIA.
25	2	9316-C31	NUT, 3/16 UNC ELASTIC LOCK
26	1	18254	SHATT, PIVOT ARM
27	8	9431-C38	WASHER, 3/8 HELICAL LOCK
28	1	9007-C100	CAPSCR, 3/8 UNC HEX GR8 PLT
29	7	9007-C126	CAPSCR, 3/8 UNC HEX GR8 PLT
30	5	9448-C10	WASHER, 0.10 HI COL LOCK
31	3	9030-C173	CAPSCR, 0.10 UNC SOC HD
32	2	9030-C63	CAPSCR, 0.10 UNC SOC HD
33	4	9447-C10	LOCK WASHER, INTERNAL STAR LOCK
34	2	9030-C38	CAPSCR, 0.10 UNC SOC HD
35	2	18298	CABLE, SENSOR
36	1	21304	SHATT, FLEXIBLE DRIVE
37	1	21319	PLATE, CARRIER
38	2	3043T11	NUT, 0.6 UNC ELASTIC LOCK
39	4	9516-C6	CAPSCR, 0.6 UNC SOC HD
40	4	9028-C50	CAPSCR, 0.6 UNC SOC HD
41	1	21328	CABLE ACTUATOR
42	1	21330	CABLE BRACKET
43	2	9500-C10	0.10 UNC HEX NUT

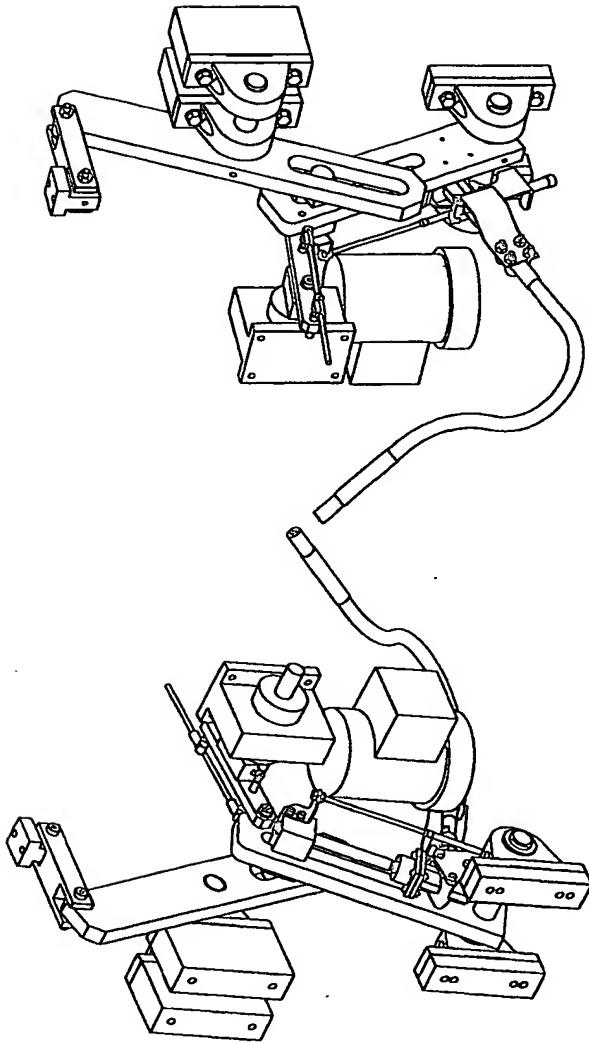


FIG. 23A

FIG. 23B

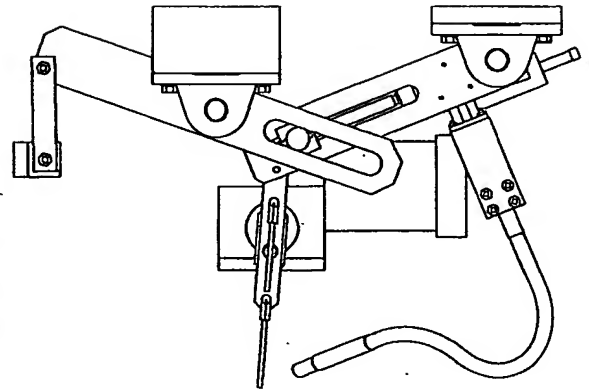


FIG. 23C

TOLERANCES  
UNLESS OTHERWISE  
SPECIFIED  
FRACTION: 1/32  
X.X: 0.01  
X.XX: 0.005

HEAT TREAT / FINISH

PROCESSING & SHAPE  
DRAWN BY: LAM  
DATE: 5/30/2003

REV	DATE	DESCRIPTION	ECN	BY
1	2/17/04	ADDED ITEM #34	0000	JSW
0	5/20/2003	INITIAL RELEASE	0000	LAM

REVISIONS  
INDEX ASSY

Amstrong  
MANUFACTURING CO.